

## Installation von R und RStudio

In diesem Kurs werden wir mit R und RStudio arbeiten. Beides sind kostenlose, open-source Softwareprogramme. **Am einfachsten ist es, wenn R als erstes installiert wird.**

R ist eine Programmiersprache für statistische Berechnungen und Grafiken. R kann man direkt in einer Kommandozeileumgebung programmieren. Für den Kurs empfehle ich aber, dass wir RStudio nutzen. RStudio ist eine grafische Benutzeroberfläche mit der man einfacher arbeiten kann.

Bitte ladet hier R herunter: <https://www.r-project.org/>. Unter *Getting started* klickt bitte auf *download R*. Dann wählt einen sogenannten *CRAN mirror* aus (z.B., Germany: <https://ftp.gwdg.de/pub/misc/cran/>). Dann klickt bitte im ersten Absatz *Download and Install R* auf *Download R* für das eigene Betriebssystem (Windows, MAC, Linux). Dann bitte die sogenannte *base distribution* herunterladen und installieren. Die aktuelle R Version für Windows ist R-4.1.1.



### The R Project for Statistical Computing

#### Getting Started

R is a free software environment for statistical computing and graphics. It provides a wide variety of statistical and graphical techniques, and it is highly extensible. To download R, please choose your preferred CRAN mirror.

If you have questions about R like how to download and install the software, or what the license terms are, please read our answers to frequently asked questions before you send an email.

- News
- R version 4.1.1 (‘Torch’) has been released on 2021-08-10
- R version 4.0.5 (‘Phoebe’) and ‘Torch’ was released on 2021-03-31
- Thanks to the organizers of useR! 2020 for a successful online conference. Recorded tutorials and talks from the conference are available on the R Consortium YouTube channel.
- You can support the R Foundation with a renewable subscription as a supporting member



### El Salvador

<http://cran.rstudio.gob.sv/>  
<https://ftp.emet.cc/pub/cran/>  
 France  
<https://phoebus.issel.fr/CRAN/>  
<https://mirrors.tug.ctp.kit/CRAN/>  
<https://mirrors.huber.su/CRAN/>  
<https://fp.jku.at/r/pkgs/cran/>  
<https://crandis.ijs.si/>  
 Germany  
<https://mira.fh-dortmund.de/cran/>  
<https://mirror.mpi-dortmund.mpg.de/cran/>  
<https://ftp.gwdg.de/pub/mirror/cran/>  
<https://cran.r-project.org/mirror/de/>  
<https://mira.fh-dortmund.de/cran/>  
<https://pkgs.csiro.au/cran/>  
 Greece  
<https://ftp.ac.cy/mirrors/CRAN/>

Ministry of Health (Ministerio de Salud)

ElSal

Dpt. of Biometry & Evol. Biology, University of Lyon  
 CNRS, INRAE, Lyon  
 IRD, Marseille  
 Institut de Gérontologie Humaine, Montpellier  
 French Nuclear Safety Institute, Paris  
 Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)  
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 GWDG Göttingen  
 University of Münster, Germany  
 CimbiNPs  
 OTH Regensburg  
 University of Crete



### The Comprehensive R Archive Network

#### Download and Install R

- Download R for Linux (Debian, Fedora, etc., Ubuntu)
- Download R for macOS
- Download R for Windows

R is platform independent software, you should check with your Linux package management system in addition to the link above.

#### Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The source have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2021-08-10, Kick Things) [R-4.1.1.tar.gz](#), read [what's new](#) in the latest version.
- Sources of R [alpha](#) and [beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patch and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Compiled extensions [packages](#).

#### Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

What are R and CRAN?



### R for Windows

#### Subdirectories:

[base](#)

Binaries for base distribution. This is what you want to [install R for the first time](#).

Binaries of contributed CRAN packages (for R = 2.13.x, managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

Binaries of contributed CRAN packages for outdated versions of R (for R = 2.13.x, managed by Uwe Ligges).

Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [RFAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the usual precautions with downloaded executables.



### R-4.1.1 for Windows (32/64 bit)

#### Download R 4.1.1 for Windows (64 megabyte, 32-bit)

Installation and other instructions

New releases in this archive

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [pathnames](#) of the [.tar.gz](#) on the [snapshot](#) on the master server. You will need a version of [msys2](#) for windows; both graphical and command line versions are available.

#### Frequently asked questions

Please see the [RFAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

#### Other builds

- Patches to this release are incorporated in the [x64\\_64bit\\_minimal\\_build](#).
- How do I update packages in my previous version of R?
- Should I run 32-bit or 64-bit R?

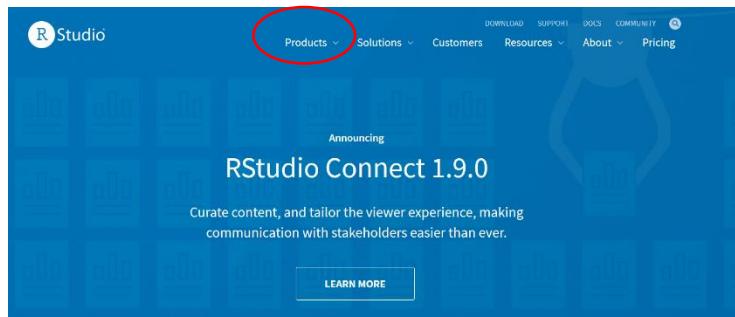
Please see the [RFAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

#### Other

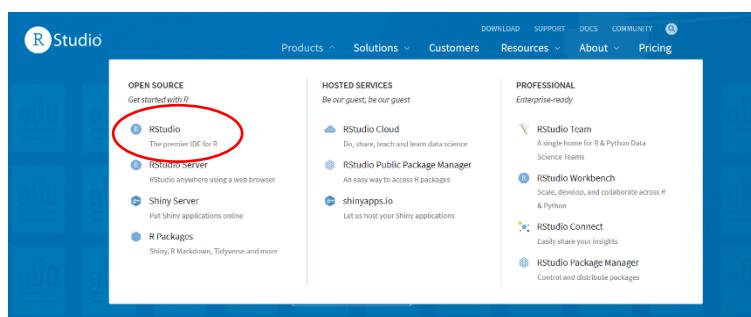
Note to webmasters: A stable link which will refer to the current Windows binary release is [CRAN MIRROR - for windows base release.html](#).

Last change: 2021-08-10

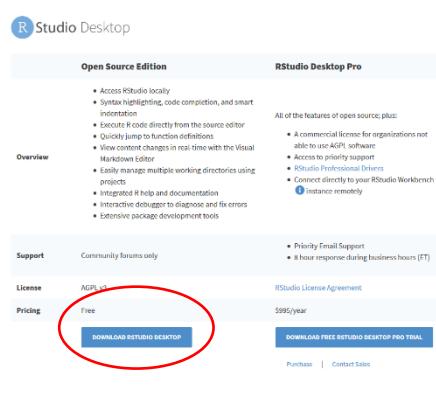
Anschließend installiert bitte RStudio: <https://www.rstudio.com/>. Bitte im oberen Menü *Products* auswählen und dann in der linken Spalte den obersten Punkt *RStudio* anklicken. Dann etwas nach unten scrollen und den kostenlosen *RStudio Desktop* installieren.



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